Navy Advancement Center
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Advancement Handbook for Electronics Technician (Communications)(Submarine)

(For advancement exams designated as ETR)

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PREFACE

The purpose of this Advancement Handbook is to help you prepare for Navywide Electronics Technician (Communications) (Submarine) advancement-in-rating examinations. It is divided into four major "parts" and one appendix. The four "parts" list the general skills areas on which you may be tested and the specific topics on which the test questions may be based. The appendix lists the publications from which the test questions may be drawn. By using the information in this handbook and the bibliography for the exam you will be taking, you can concentrate your studying on the areas that may be tested and can get the most out of your limited study time.

Keep in mind that the four "parts" are cumulative; that is, you are responsible for the skills assigned to the paygrade you are testing for, as well as the skills assigned to your present paygrade and all paygrades below. If you are tested on skills and knowledges from lower paygrades, it will be at the level of the paygrade for which you are testing. For example, if the topic is the "CMS" system, an ETR3 candidate might be asked about the organization within the CMS system, an ETR2 candidate might be asked about inventories, an ETR1 candidate might be asked about receiving OTAT, and an ETRC might be asked about how to start a CMS account.

As you prepare for the exam, remember that the exam is designed to test your knowledge of your profession. You gain professional knowledge by doing your job, completing your qualifications cards, and studying the references associated with your rating. The best way you can prepare for an advancement exam is to:

1. Learn as much as you can about your job. Complete as many of your qualification cards as you can. Know as much about the construction and operation of your equipment as you can. Continually ask questions. Find out not only what happens, but also why it happens and what to do if it doesn't happen as expected. Make this a continuing process.

2. As soon as the bibliography for the exam you plan to take is available, get a copy and start reviewing the references listed on it. Don't try to memorize the information the references contain. Use that information to "sharpen" the knowledge and skills you already have.

Finally, remember that advancement competition is keen, so your keys to advancement include not only comprehensive advancement examination study but also sustained superior performance.

Prepared by
Naval Education and Training Professional
Development and Technology Center

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Part 1

Advancement Handbook for ETR3

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Electronic Warfare Systems	You can expect questions on the following areas:
Operate and maintain electronic support measure (ESM) equipment	• ESM/EW systems purpose and principles of operation • ESM/EW reporting procedures • System operating characteristics (frequency ranges, scan types and signal strength, modes of operation, etc.) • Operating procedures (front panel controls and indicators, adapter switches and indicators, system setup, turn-on, and self-test procedures, system shut-down and emergency shut-down procedures, etc.) • Equipment detailed functional description • ESM watchstanding requirements and procedures • How to use the library storage capability, including entry • How to use and interpret threat ban parameters • Safety precautions • Security precautions
Identify, analyze, and evaluate radio frequency (rf) signals	• Identification, analysis and evaluation procedures

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Test, operate, and evaluate periscope electronic equipment	• System start up and shut down procedures • Periscope equipment operating procedures and instructions • Periscope watchstanding requirements and procedures • Equipment functional description • Periscope theory and principles • Signal interpretation • Testing, and evaluation procedures • Safety precautions • Security precautions
General Electronic	
Operate and maintain power supplies	• Power supply PMS procedures • Power supply testing and operating procedures • Power supply theory and principles of operation • Safety precautions
Interpret maintenance schematics	• Interpreting maintenance schematics
Analyze schematic diagrams	• Analyzing schematic diagrams
Analyze system diagrams	• Analyzing System diagrams

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Communications and Operations	
Use Communications Security Material Systems	• Organization • Storage requirements • Transporting COMSEC material • Routine destruction of COMSEC material • Required actions upon receipt and opening of COMSEC material • Issuing COMSEC material • Procedures for destroying COMSEC material • Practices dangerous to security (PDSs) and CMS incidents reporting
Control classified and special category (SPECAT) material	• Customer authorization to access files • Verifying message recipient's identification and security clearances • Safeguarding classified material • Tempest requirements • Access to restricted areas • Changing safe and cipher combinations • Destroying classified material (Top Secret and below) • Sanitizing the site and equipment • Conducting classified material inventories • Setting up communications security (SPECAT) equipment • Receiving, inventorying, and destroying classified material • Emergency destruction procedures

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Test, operate, and evaluate communication systems (ELF through UHF)	• Demonstrate a working knowledge of antennas, receivers, transmitters, transceivers, power supplies, crypto equipment and auxiliary equipment • System start up and shut down procedures • Operating procedures and instructions • Watchstanding requirements and procedures • Equipment detailed functional descriptions • Equipment theory and principles • Associated publications and manuals • Safety precautions • Security precautions
Detect and identify meanconing, intrusion, jamming, and interference (MIJI)	• References used with reporting harmful interference • Differences between meanconing, intrusion, jamming, and interference • Associated publications • Security precautions

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Rig and tune emergency antennas	• Types of emergency antennas • Antenna subsystem used and different modes of operation • Frequency ranges and physical characteristic of the antennas • System startup and shut down procedures • Procedures for rigging and tuning antennas • Equipment functional descriptions • Equipment principles of operation • Safety precautions
Test and operate the floating wire antenna system	• Types of tips and wires used • Floating wire subsystems interface • Basic block diagram (signal flow) • System setup procedures • Operating procedures and instructions, including deploying and retrieving the antenna • Maximum speed and depth limitations • Equipment functional description • Infrequent, abnormal, and casualty operations • Associated publications and manuals • Equipment principles of operation • Safety precautions • Security precautions

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Operate and maintain identification friend or foe (IFF) equipment	• Purpose of the IFF system including its use during ship's operations • Physical arrangement of the IFF system • Associated interfacing systems • Nomenclature and basic description of signal flow using simplified block diagrams • Switches and indicators associated with IFF system • Omnidirectional detection of IFF interrogation • Recognition of proper interrogation • IFF external hardware interfaces • Types of crypto and associated loading procedures • Modes of operation • System start up and shut down procedures • Operating procedures and instructions • Equipment detailed functional description • Watchstanding requirements and procedures • Associated publications and manuals • Equipment principles of operation • Safety precautions • Security precautions

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Process message traffic	• System description • System setup and shut down procedures • Operating procedures and instructions • Routing procedures • Time requirements • Equipment functional • Watchstanding requirements and procedures • Associated publications and manuals • Safety precautions • Security precautions
Draft communication-related messages ((communication spots (COMMSPOTS), broadcast screen requests (BSR), etc.))	• Associated publications and manuals • Reporting procedures • Processing special handling messages, including TS, SPECAT and CAVEAT messages • Preparing and processing communications messages, including COMMSPOT, BSRS, services, and tracer messages
Encrypt and decrypt messages and call signs	• Operating, and security procedures for encrypting and decrypting messages and call signs • Associated publications and manuals

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Operate the Gateguard system	• System start up and shut down procedures • Output data from computer systems • Inspecting printed data output • Converting data files • Processing data files • Transferring data files • Verifying data files • Input data on computer systems • Operating procedures and instructions • Routing procedures • Equipment functional • Description • Associated publications and manuals • Safety precautions • Security precautions
Inventory communications publications	• Requirements and procedures for inventorying communications publications

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Conduct over-the air transfer (OTAT) and over-the-air rekey (OTAR)	• Setting up COMSEC equipment • OTAR and OTAT procedures • Transmitting and receiving cryptographic keying material via OTAT/OTAR • Setting up, verifying, and operating STU III terminals • Receipt, inventory, and destruction of COMSEC material and equipment • Two-person integrity • Usage of all crypto devices (equipment) and their associated devices • Administrative procedures, AL codes • Administration change of command • Emergency destruction procedures • Associated publications and manuals • Equipment operating principles • Safety precautions • Security precautions

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Test, operate, and evaluate communication software systems	• System setup and shut down procedures • Output data from computer systems • Inspecting printed data output • Converting data files • Processing data files • Transferring data files • Verifying data files • Inputting data on computer systems • Operating procedures and instructions
Program expendable communications buoys	• System startup and shut down procedures • Programming message in buoy • Operating procedures and instructions • Limitations and requirement procedures • Transmission delay condition • Delay times • Scuttle times • Equipment detailed functional description • Associated publications and manuals • Equipment operating principles • Safety precautions • Security precautions

Part 2

Advancement Handbook for ETR2

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Electronic Warfare Systems	You can expect questions on the following areas:
Maintain ESM equipment	• Preventive and corrective maintenance on ESM equipment (AN/WLR-8, AN/WLR-1 system,BRD-7) • Theory of equipment/system operation • Test equipment use and management • Watchstanding requirements
Troubleshoot and repair periscope electronic equipment	• Corrective maintenance on the periscope system (Type 15L periscope antenna, Type 18 periscope antenna, and Type 8L/8J periscope antenna) • Theory of equipment/system operation • Test equipment use and management • Watchstanding requirements
Prepare ESM search plans	• Requirements and contents of the ESM search plan

General Electronic	
Troubleshoot and repair power supplies	• Preventive and corrective maintenance on power supplies • Principles and prevention of electrostatic discharge (ESD) • Theory of power supply operation • Test equipment use and management
Troubleshoot and repair voltage regulators	• Preventive and corrective maintenance on voltage regulators • Theory of voltage regulator operation • Test equipment use and management
Troubleshoot and repair transformers	• Preventive and corrective maintenance on transformers • Theory of equipment/system operation • Test equipment usage and management
Interpret and verify ship's blueprints	• How to verify ship's blueprints • Symbols used on ship's blueprints • Blueprint graphic symbols for electrical and electronic diagrams • Blueprint graphic symbols for mechanical systems diagrams • Use of blueprints for troubleshooting electronic systems and equipment

Communications and Operations	
Develop and interpret satellite vulnerability reports	• Requirements and contents of Satellite Vulnerability Reports
Prepare and update the "Communications" portion of emergency action plans	• Requirements and contents of emergency action plans • Watchstanding requirements
Prepare and update communications Standard Operating Procedures	• Requirements and contents of communications Standard Operating Procedures
Monitor, maintain, troubleshoot and repair communications systems (ELF through UHF)	• Preventive and corrective maintenance on: – Antennas – Antenna Interface Subsystem – VLF/LF Antenna Interface Unit – Data Switching Subsystem – HF/UHF Subsystem – Control, Monitor and Test Subsystem – Support Subsystem – EHF and Subsystem – ELF Subsystem – Auxiliary Equipment – EVS Subsystem – Emergency Equipment • Equipment terminology • Theory of equipment/system operation • Test equipment use and management • Watchstanding requirements

Troubleshoot and repair antenna systems	Preventive and corrective maintenance on antenna systems and subsystems • Theory of equipment/system operation • Test equipment use and management
Troubleshoot and repair IFF equipment	• Preventive and corrective maintenance on IFF equipment • Theory of equipment/system operation • Test equipment usage and management • Watchstanding requirements

Part 3

Advancement Handbook for ETR1

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Electronic Warfare Systems	You can expect questions on the following areas:
Supervise the operation, troubleshooting and maintenance of the ship's ESM systems	• System circuit design and analysis • ESM theory • Scheduling preventive maintenance and maintaining records • Test equipment use and management • Personal and equipment safety requirements • Quality assurance program requirements and procedures
Supervise the operation, troubleshooting, and repair of periscope electronic equipment	• Operation, troubleshooting and repair of periscope antennas (Type 15L, Type 18, and Type 8L/8J) • Adjusting and aligning periscope electronic equipment • Theory of equipment and system operation • Test equipment use and management • Personal and equipment safety requirements • Quality assurance program requirements and procedures • Watchstanding requirements
Plan and evaluate the ESM search plan	• Requirements for and contents of the ESM search plan

General Electronic	
Supervise the troubleshooting and repair of electronic circuits	• Electronic circuit troubleshooting and repair techniques • Test equipment use and management • Electronic circuit theory • Personal and equipment safety requirements
Communications and Operations	
Supervise the preparation of communication and operations plans and reports	• Action plan requirements and contents • Standard Operating Procedure (SOP) requirements and contents • Satellite vulnerability reports requirements and contents • Preparation of communication plans • Submission of CMS reports • Updating the "Communications" portion of Emergency Action Plans • Reporting MIJI • Preparing U.S. message test formats (MTF) messages

Supervise the operation, troubleshooting and maintenance of the ship's communication systems	• System circuits design and analysis • Scheduling of maintenance and maintaining maintenance records • Theory of equipment and system operation • Test equipment use and management • Adjusting and aligning communication equipment • Personal and equipment safety requirements and procedures • Quality assurance program requirements and procedures • Security requirements and procedures • Watchstanding requirements

Part 4

Advancement Handbook for ETRC

Electronic Warfare Systems	You can expect questions on the following areas:
Supervise training associated with the ship's ESM systems	• Training requirements, procedures, and records
Manage the operation, and maintenance of ESM systems and associated equipment	• Required maintenance and maintenance records • System design and operation • Test equipment use and management • Personal and equipment safety requirements • Quality assurance program requirements and procedures
Communications and Operations	
Supervise training associated with the ship's communications systems	• Training requirements, procedures, and records
Manage the operation, and maintenance of the Communications systems and associated equipment	• Required maintenance and maintenance records • System design and operation • Test equipment use and management • Personal and equipment safety requirements • Quality assurance program requirements and procedures
Prepare the communications emergency destruction plan	• Emergency destruction plan requirements and preparation procedures

Appendix 1

References Used in This Advancement Handbook

The references are divided into five groups. The first group pertains to paygrades E-4 through E-7. The remaining four groups pertain to individual paygrades, as indicated on the lists.

Keep in mind that the ONLY publications you need to study in preparing for a specific exam are the publications listed on the exam specific-bibliography for that exam.

ETR3 though ETRC

Short Title	Long Title	Stocking Point
ACP 100	Allied Call Sign and Address Group System – Instructions and Assignments; ACP 100	Note 3
ACP 121 US SUPP-1	Communications Instructions General; ACP 121 US SUPP-1	Note 3
ACP 122	Communications Instructions – Security; ACP 122	Note 3
ACP 125	Communications Instructions – Radiotelephone Procedures; ACP 125	Note 3
ACP 126	Communications Instructions – Teletypewriter (Teleprinter) Procedures; ACP 126	Note 3
ACP 131/ACP 131 SUPP-1	Communications Instructions – Operating Signals; ACP 131/ACP 131 SUPP-1	Note 3
CMS 1	Communications Security Material System (CMS) Policy & Procedures Manual; CMS 1	Note 6
CMS 5	Communications Security Material System (CMS) Cryptographic Equipment Information/Guidance Manual; CMS 5	Note 6
CMS 6	Secure Telephone Unit Third Generation (STU-III) COMSEC Material Management Manual; CMS 6	Note 6

EE110-BG-OMI-010/W153-OE-315(V)	Technical Manual Operation and Maintenance Instructions, Organizational and Intermediate Levels OE-315(V)BRC Antenna Group Buoyant Cable Antenna System, SPAWAR; EE110-BG-OMI-010/W153-OE-315(V)	Note 1
EE110-KV-OMI-010/W110-BRA-34	FOMM Technical Manual Support Volume for Antenna Group AN/BRA-34, AN/BRA-34A, AN/BRA-34B, Volume 1; EE110-KV-OMI-010/W110-BRA-34	Note 1
EE110-KV-OMI-020/W110-BRA-34	FOMM Technical Manual Support Volume for Antenna Group AN/BRA-34, AN/BRA-34A, AN/BRA-34B, Volume 2, Part 1; EE110-KV-OMI-020/W110-BRA-34	Note 1
EE110-KV-OMI-030/W110-BRA-34	FOMM Technical Manual Support Volume for Antenna Group AN/BRA-34, AN/BRA-34A, AN/BRA-34B, Volume 2, Part 2; EE110-KV-OMI-030/W110-BRA-34	Note 1
EE111-HV-OMI-01A/W110-CU-2270	Technical Manual Operation and Maintenance Instructions and Illustrated Parts Breakdown, Organizational and Intermediate Maintenance Levels Antenna Coupler CU-2270/BRC; EE111-HV-OMI-01A/W110-CU-2270	Note 1
EE130-AG-OMI-030/156-3 USC-38	Technical Manual Operation and Maintenance Instructions, Organizational and Intermediate Levels OE-315(V)/BRC Antenna Group Buoyant Cable Antenna System, SPAWAR; EE130-AG-OMI-030/156-3 USC-38	Note 1
EE130-KA-OMI-010/AN/BRT-6	Technical Manual Operation and Maintenance Instructions, Organizational Level, Transmitting Set, Buoy AN/BRT-6; EE130-KA-OMI-010/AN/BRT-6	Note 1
FXP 3	Strike Warfare (STW), Antisurface Ship Warfare (ASU), Intelligence (INT), Electronic Warfare (EW) and Command, Control; FXP 3	Note 9

JANAP 128	Automatic Digital Network 9AUTODIN0 Operating Procedures; JANAP 128	Note 3
NAG 16	Procedures Manual for Over-the-Air Transfer (OTAT) and Over-the-Air Rekey (OTAR); NAG 16	Note 8
NAVSEA 0924-LP-065-4050	TRIDENT Submarine Periscope Subsystem Type 8L Mod (T) and Type 15L Mod (T); NAVSEA 0924-LP-065-4050	Note 1
NAVSEA S9425-AG-MMM-010/(C)	Technical Manual Type 18 submarine periscope sets Volume I; NAVSEA S9425-AG-MMM-010/(C)	Note 1
NAVSEA S9425-AG-MMM-020 (Note: This is a set of the six technical manuals listed immediately below)	Type 18 B/D Submarine Periscope Set; NAVSEA S9425-AG-MMM-020	Note 1
NAVSEA S9425-AG-MMM-020/(C)	Technical Manual Type 18 Submarine Periscope Sets Volume II, Part 1; NAVSEA S9425-AG-MMM-020/(C)	Note 1
NAVSEA S9425-AG-MMM-030/(C)	Technical Manual Type 18 submarine periscope sets Volume II, Part 2; NAVSEA S9425-AG-MMM-030/(C)	Note 1
NAVSEA S9425-AG-MMM-040/(C)	Technical Manual Type 18 submarine periscope sets Volume III, Part 1; NAVSEA S9425-AG-MMM-040/(C)	Note 1
NAVSEA S9425-AG-MMM-050/(C)	Technical Manual Type 18 submarine periscope sets Volume III, Part 2; NAVSEA S9425-AG-MMM-050/(C)	Note 1
NAVSEA S9425-AG-MMM-060/(C)	Technical Manual Type 18 submarine periscope sets Volume IV; NAVSEA S9425-AG-MMM-060/(C)	Note 1
NAVSEA S9425-AG-MMM-070/(C)	Technical Manual Type 18 submarine periscope sets Volume V; NAVSEA S9425-AG-MMM-070/(C)	Note 1
NAVSEA S9425-BF-MMA-020	Type 8 B/J Mod 3 Submarine Periscope Set (EHF SATCOM); NAVSEA S9425-BF-MMA-020	Note 1
NTP 2 SEC II ANX D &H	Navy ultra High Frequency SATCOM; NTP 2 SEC II ANX D &H	Note 5
NTP 2 SEC III-1 EHFSAT	EHF SATCOMM; NTP 2 SEC III-1 EHFSAT	Note 5

NTP 2, SEC 3-1	Navy Extremely-High-Frequency Satellite Communications (Navy EHF Communications Management); NTP 2, SEC 3-1	Note 5
NTP 2, SEC I	Navy Satellite Communications Overview: Defense Satellite Communications; NTP 2, SEC I	Note 5
NTP 2, SEC II	Navy Satellite Operations – Satellite Communications (UHF SATCOM) (Standard Operating Procedures); NTP 2, SEC II	Note 5
NTP 3, SUPP 1	U.S. Navy Address Indicating Group (AIG) and Collective Address Designator (CAD) Handbook; NTP 3, Supplement 1	Note 5
NTP 6	Spectrum Management Manual; NTP 6	Note 5
NWP 1-01	Naval Operational Planning; NWP 1-01	Note 2
NWP 1-01	Naval Warfare Publications System; NWP 1-01	Note 3
NWP 1-03.1	Operational Reports; NWP 1-01	Note 2
NWP 3-13.10.1 Vol 4	AN/WLR-8(V)5 Countermeasures Receiving Set Operating Guidelines; NWP 3-13.10.1 Vol 4	Note 2
NWP 3-13.10.1 Vol 7	AN/WLR-1G Operating Guidelines; NWP 3-13.10.1 Vol 7	Note 2
NWP 3-13.10.1 Vol 8	AN/WLR-1H(V)1 Operating Guidelines; NWP 3-13.10.1 Vol 8	Note 2
NWP 3-13.10.1 Vol I	AN/WLR-8(V)2 Countermeasures Receiving Set Operating Guidelines; NWP 3-13.10.1 Vol I	Note 2
NWP 5-01	Naval Operational Planning; NWP 5-01	Note 2
NWP 6-01	Basic Operational Communication Doctrine; NWP 6-01	Note 2
NWP 6-01.1	Battle Group Communications; NWP 6-01.1	Note 2
OPNAVINST 2430.18	Reporting Meaconing, Intrusion, Jamming and Interference of Electromagnetic Systems; OPNAVINST 2430.18	Note 4
SORN	Standard Organization and Regulations of the U.S. Navy; OPNAVINST 3120.32	Note 4

3-M Manual	Ships'Maintenance and Material Management (3-M) Manual; OPNAVINST 4790.4	Note 4
OPNAVINST 5100.19	Navy Occupational Safety and Health (NAVHOSP) Program Manual for Forces Afloat; OPNAVINST 5100.19	Note 4
OPNAVINST 5239.1	Department of the Navy Automatic Data Processing Security Program Instruction; OPNAVINST 5239.1	Note 4
OPNAVINST 5239.3	Department of the Navy Automated Information Systems (AIS) Security Program; OPNAVINST 5239.3	Note 4
OPNAVINST C5510.93	Navy Implementation of National Policy On Control of Compromising Emanations; OPNAVINST C5510.93	Note 1
S9425-AZ-MMA-010/(U)	Technical Manual, Operation and Maintenance Instructions With Parts List, Type 8B/L MOD 3 Submarine Periscope Set (EHF SATCOM), Volume 1 Part I; S9425-AZ-MMA-010/(U)	Note 1
S9425-AZ-MMA-010/(U)	Technical Manual, Operation and Maintenance Instructions With Parts List, Type 8B/L MOD 3 Submarine Periscope Set (EHF SATCOM), Volume 1 Part II; S9425-AZ-MMA-010/(U)	Note 1
SECNAVINST 5233.1	Department of the Navy Automated Data System Document Standards; SECNAVINST 5233.1	Note 4
SECNAVINST 5239.3	Department of the Navy Automated Information Systems (AIS) Security; SECNAVINST 5239.3	Note 4
SPAWAR 0967-LP-592-5010	Countermeasures Receiving Set AN/WLR-8(V)2 Volume I; SPAWAR 0967-LP-592-5010	Note 1
SPAWAR 0967-LP-592-5020	Countermeasures Receiving Set AN/WLR-8(V)2 Volume II; SPAWAR 0967-LP-592-5020	Note 5
SPAWAR 0967-LP-592-5200	Countermeasures Receiving Set AN/WLR-8(V)5 Volume 3; SPAWAR 0967-LP-592-5200	Note 1

ETR3

Short Title	Long Title	Stocking Point
NAVEDTRA 12044	Military Requirements for Petty Officer Third Class; NAVEDTRA 12044	Note 1
ACP 135	Communications Instructions Distress and Rescue Procedures; ACP 135	Note 3
FED STD 1037	Telecommunications: Glossary of Telecommunications Terms; FED STD 1037	Note 7
NEETS, Module 1	NEETS, Module 1 – Introduction to Matter, Energy, and Direct Current; NAVEDTRA B72-01-00-92	Note 1
NEETS, Module 2	NEETS, Module 2 – Introduction to Alternating Current and Transformers; NAVEDTRA 172-02-00-91	Note 1
NEETS, Module 4	NEETS Module 4 – Introduction to Electrical Conductors, Wiring Techniques, and Schematic Reading; NAVEDTRA B72-04-00-92	Note 1
NEETS, Module 7	NEETS Module 7 – Introduction To Solid-State Devices And Power Supplies;, NAVEDTRA B72-07-00-92	Note 1
NEETS, Module 8	NEETS, Module 8 – Introduction to Amplifiers; NAVEDTRA 172-08-00-82	Note 1
NEETS, Module 10	NEETS, Module 10 – Introduction To Wave Propagation, Transmission Lines, and Antennas; NAVEDTRA B72-10-00-93	Note 1
NEETS, Module 12	NEETS, Module 12 – Modulation Principles; NAVEDTRA 172-12-00-83	Note 1
NEETS, Module 16	NEETS, Module 16 – Introduction to Test Equipment; NAVEDTRA B72-16-00-96	Note 1
NEETS, Module 17	NEETS, Module 17 – Radio-Frequency Communications; NAVEDTRA 172-17-00-84	Note 1
NTP 3	Telecommunications Users'Manual; NTP 3	Note 5
NTP 4	Fleet Communications; NTP 4	Note 5
OPNAVINST 5510.1	Department of the Navy Information and Personnel Security Program Regulation; OPNAVINST 5510.1	Note 4

ETR2

Short Title	Long Title	Stocking Point
NAVEDTRA 12014	Blueprint Reading and Sketching; NAVEDTRA 12014	Note 1
NAVEDTRA 12045	Military Requirements for Petty Officer Second Class; NAVEDTRA 12045	Note 1

ETR1

Short Title	Long Title	Stocking Point
NAVEDTRA 12014	Blueprint Reading and Sketching; NAVEDTRA 12014	Note 1
NAVEDTRA 12046	Military Requirements for Petty Officer First Class; NAVEDTRA 12046	Note 1

ETRC

Short Title	Long Title	Stocking Point
NAVEDTRA 12047	Military Requirements for Chief Petty Officer; NAVEDTRA 12047	Note 1

Note 1: To order, obtain the stock number from NAVSUP P2002, then MILSTRIP to NAVICP PHILA or (if unclassified) via INTERNET http://www.n11.navsup.navy.mil or see your command NWP Custodian.

Note 2: To order, obtain Stk.No. from NSUP P2002, then MILSTRIP to NAVICP PHILA or via NTIC Series B1 CD-ROM's (See your command NWP Custodian)

Note 3: To order, obtain Stk. No. from NSUP P2002, then MILSTRIP to NAVICP PHILA or via INTERNET http://www.n11.navsup.navy.mil or see your command NWP Custodian.

Note 4: INTERNET - http://neds.nebt.daps.mil/

Note 5: Download from COMNAVCOMTELCOM'S BULLETIN BOARD SERVICE (BBS); ALCOM 010/96 refers. if document is classified, refer to Note 1.

Note 6: Director,
COMSEC Material System
3801 Nebraska Ave NW
Washington D.C. 20393-5453

Note 7: DOD Index of Specifications and Standards Part II (Use DD Form 1425) of via INTERNET http://dadssp.daps.mil

Note 8: Department of the Navy Space and Naval Warfare Systems Command Washington, D.C. 20363-5111

Note 9: NTIC Series B1 CD-ROM's (See your command NWP Custodian)